SOFRASER

RELIABLE AND VERSATILE PROCESSOR FOR PROCESS VISCOSITY CONTROL

Sofraser's **9600 viscosity and temperature processor** family receives signals from the MIVI sensor while accurately measuring and displaying a fluid's real-time viscosity and temperature and calculates viscosity at reference temperature. The **9602 processor** is the ideal solution for viscosity measurement and control of up to 8 distinct products with only one sensor.

- **User-friendly display:** The **9600 viscosity and temperature processors** offer instantaneous and continuous display in value, bar graphs or trend curves, as well as relevant equipment information.

- **Personalized and intuitive use:** Security codes, compensated viscosity tables, offset adjustment, density processing, viscosity value filtering, and viscosity and temperature Min/Max values and units are easily accessed and programmed on the detailed settings menu.

- **Additional 9600 functions:** A densimeter input allows instant kinematic viscosity value measurement. Viscosity at reference temperature is easily calculated with the temperature compensated viscosity table.

- **Improve process management and production:** Programmable analog outputs and alarm relays yield increased viscosity, temperature, compensated viscosity and density process controls.

Typical application fields

- **Printing & Packaging: inks, varnishes, cardboard glues, adhesives**

- **Coating: paints, lacquers, inks, varnishes**

- **Chemistry: polymers, detergents, surfactants**

- **Cosmetics: creams, gels, pastes**

- **Petroleum: oil, fuels, lubricants**

Whatever your industry, we understand and develop solutions for many applications. For a personalized approach, contact us at **instruments@sofraser.com**
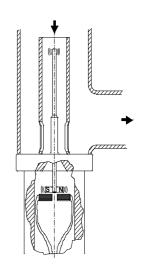
9600 Viscosity &Temperature Processors

In 1981, Sofraser invented & patented the world's first vibrating viscometer at resonance frequency.

The vibration amplitude varies according to the viscosity of the product in which the rod is immersed.

The active part of the sensor, a vibrating rod held in oscillation at resonance frequency, is driven by constant electrical power.

Sofraser remains unsurpassed regarding process reliability and accuracy.

Standard Features and Specifications

Versions	• **9601 Viscosity and Temperature Processor** For 1 Analog MIVI sensor with 1 parameters set • **9602 Viscosity and Temperature Processor** For 1 Analog MIVI sensor with up to 8 parameters sets
Inputs	• Viscosity (MIVI sensor) • Temperature (Pt100) Density (4 - 20 mA – Optional densimeter)
Outputs	• 4 x 4 -20 mA outputs: independent and insulated for viscosity, temperature, viscosity at reference temperature and density: ± 0.1 % ; Zmin. = 1kΩ, Zmax.= 500Ω • 1 x RS232 (RJ-11), Modbus, Canbus protocol • 1 x RS485 (RJ-11), 2 wires, 1200 m. max
Relays	• 9 x NO relays for low and high alarms and diagnosis • Power cut-off 3A, 8A max per common, 250 VAC or 30 VDC
Screen & Display	• Effective screen dimensions: 128 x 64 pixels • Keyboard 24 keys • Display of instantaneous values, bar graphs, curves • Alarms, relays and output status display
Operating conditions	• Working temperature: 0 to 45°C • Front panel IP65 / Back panel IP20
Dimensions & characteristics	• Panel dimensions: 184 mm x 155 mm • Total depth: 113.2 mm • Weight: 515 g • Parameters backup: 7 years on battery
Security	• Configuration and parameters password-secured
Power supply	• 24 VDC (20.4 to 28.8 VDC) – 300 mA – 7.2W
Regulatory	• CE marked (European conformity)
Options	• Possibility of 0 - 10V outputs instead of 4 - 20 mA outputs • Watertight box (IP65) • Ex-proof box, for use in hazardous areas • WISC 9601 software for data logging and parameters set-up

Quality System

AFAQ
ISO 9001
VERSION 2000

CE

SOFRASER

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